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Product Name :

Magnetic Attraction

Product Code :

SLE/EAM/28



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Description :

Magnetic Attraction (Product Code: SLE/EAM/28) is a self-contained apparatus for investigating how the attractive force between a pair of high strength neodymium magnets changes with the distance between them. A calibrated dial sets the separation, and the pull is measured by attaching standard slotted masses until the forces balance. Made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, it is a practical addition to physics lab instruments in India for magnetism and forces topics.

Specifications

Parameter	Detail
Magnets	Pair of high strength neodymium magnets
Separation control	Calibrated dial
Force measurement	By attaching standard slotted masses
Investigation	Variation of attractive force with separation distance
Teaching links	Magnetic investigations and balanced forces
Format	Self-contained system

Typical Use

Students set a separation on the calibrated dial, then add slotted masses until their weight just balances the magnetic pull holding the magnets together. Repeating this at a series of dial settings produces a table of force against distance, and plotting the results shows how steeply magnetic attraction falls away as the gap widens. Plotting force against the inverse of distance, or on log–log axes, lets advanced students look for a power-law relationship rather than simply describing the curve.

Because the measurement relies on balancing two forces, the apparatus doubles as a concrete example of equilibrium for younger classes. Add masses in small steps near the balance point, approach each reading from the same direction to reduce errors, and keep steel tools and other magnets away from the bench. It is a tidy piece of physics practical equipment for CBSE and state-board laboratories that want a quantitative magnetism experiment.

Manufacturer

The apparatus is designed and manufactured in Ambala, Haryana by **Jain Scientific Equipments Private Limited**, operating as ScienceLab and supplying magnetism, electricity and mechanics apparatus to education. Details of the company are on our company profile.

Related Electricity and Magnetism Equipment

Items to use with, or alongside, the attraction apparatus: